



MATERIAL SAFETY DATA SHEET

Company	ELPIS-Biotech. Inc.
Address	123-12 Jeonglim-dong, Seo-gu, Daejeon, Korea
Emergency Telephone NO	+82-42-581-8448
Fax	+82-42-581-8449
e-mail address	elpis@elpisbio.com

SECTION 1. CHEMICAL INFORMATION

Product name	GSH Bind Magnetic Agarose Resin
Cat. No.	EBE-1042

Product Use : Laboratory Reagent. For R&D use only. Not for drug, household or other uses.

Manufacturer/ Supplier information

Supply company : ELPIS-Biotech. Inc.

Address : 123-12 Jeonglim-dong, Seo-gu, Daejeon, Korea

Information service or emergency call : +82-42-581-8448 (042-581-8448, Korea)

Department in charge : Research Department

SECTION 2. HAZARDOUS IDENTIFICATION

Physical/chemical hazards : Not applicable.

Human health hazards : No specific hazard.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Volume of product package: 2 ml.

Buffer's Components in Water:

There are no ingredients or additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4. FIRST AID MEASURES

First-Aid measure

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion : DO NOT induce vomiting unless directed to do so by medical personal. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin Contact :	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Eye Contact :	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

SECTION 5. FIRE FIGHTING MEASURES

Flammability of the Product :	May be combustible at high temperature.
<u>Extinguishing Media</u>	
Suitable :	SMALL FIRE : Use DRY chemical powder. LARGE FIRE : Use water spray, fog or foam. Do not use water jet.
Special fire-fighting procedures :	Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
Protection of fire-fighters :	Be sure to use an approved/certified respirator or equivalent.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions :	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient, consult a specialist BEFORE handling this product.
Small Spill and Leak :	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
Large Spill and Leak :	Absorb with an inert material and put the spilled material in an appropriate waste disposal.

SECTION 7. HANDLING AND STORAGE

Handling

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not gas/fumes/vapor/spray.

Storage

Packaging materials : Use original container.

Recommended use : Use original container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION □

Engineering measures

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Hygiene measures

Wash hands after handling compounds and before eating, smoking, using lavatory, and the end of day.

Personal protective equipment

Skin and body :	Lab coat
Eyes :	Safety glasses

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid. (Resin Slurry)
Color	Brown
Odor	No data available.
Flash point	No data available.
Explosive properties	No data available.
Vapor pressure	No data available.

SECTION 10. STABILITY AND REACTIVITY

Stability	Stable.
Conditions to avoid	Not available.

SECTION 11. TOXICOLOGICAL INFORMATION

RTECS # : Not available.

Local effects

Skin irritation : Not available.

Acute toxicity : Not available.

Chronic toxicity : Repeated or prolonged exposure is not known to aggravate medical condition.

Other Toxic Effects on Humans : Not available.

SECTION 12. ECOLOGICAL INFORMATION

Not available.

SECTION 13. DISPOSAL CONSIDERATIONS

Observe all federal, state and local environmental regulations

SECTION 14. TRANSPORT INFORMATION

Contact ELPIS Biotech, Inc. Company for Transportation Information.

SECTION 15. REGULATORY INFORMATION

Reviews, standards and Regulations:

ACGIH TLV-TWA 10 MG/M3 DTLVS* TLV/BEI, 1999

EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTER FEREAC 54, 7740, 1989. MSHA STANDARD: NUISANCE PARTICULATES (MIST)

SECTION 16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

ELPIS Biotech Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

Date of preparation of the first version : 2011. 1. 20.

Revised frequency and Date of preparation of the latest version : 2013. 06. 03. (2nd version)